

EL977166045US

AUS920030619US1

Kalantar et al.

Method, System, and Product for Identifying, Reserving, and Logically Provisioning Resources in Provisioning Data Processing Systems

1/6

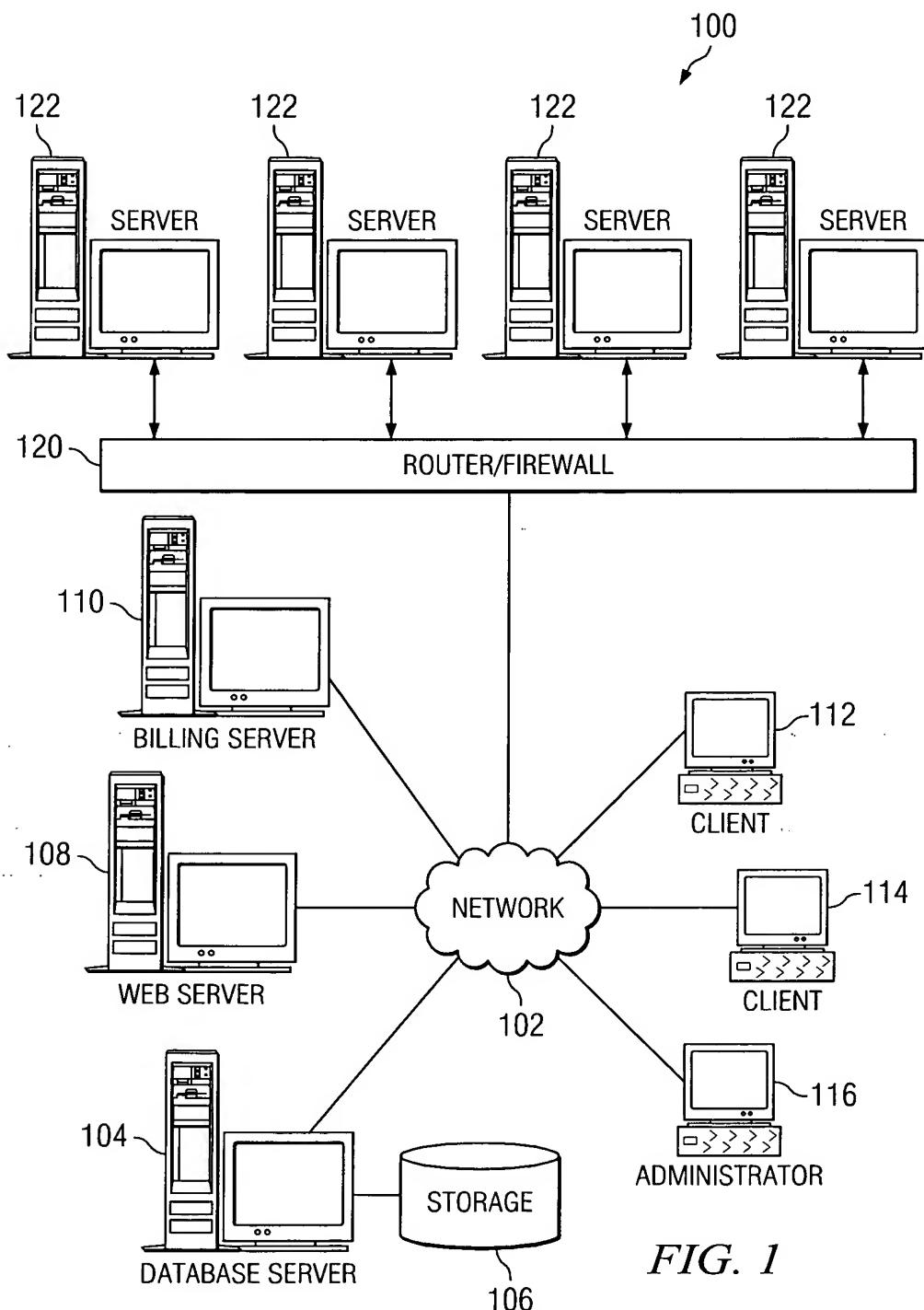


FIG. 1

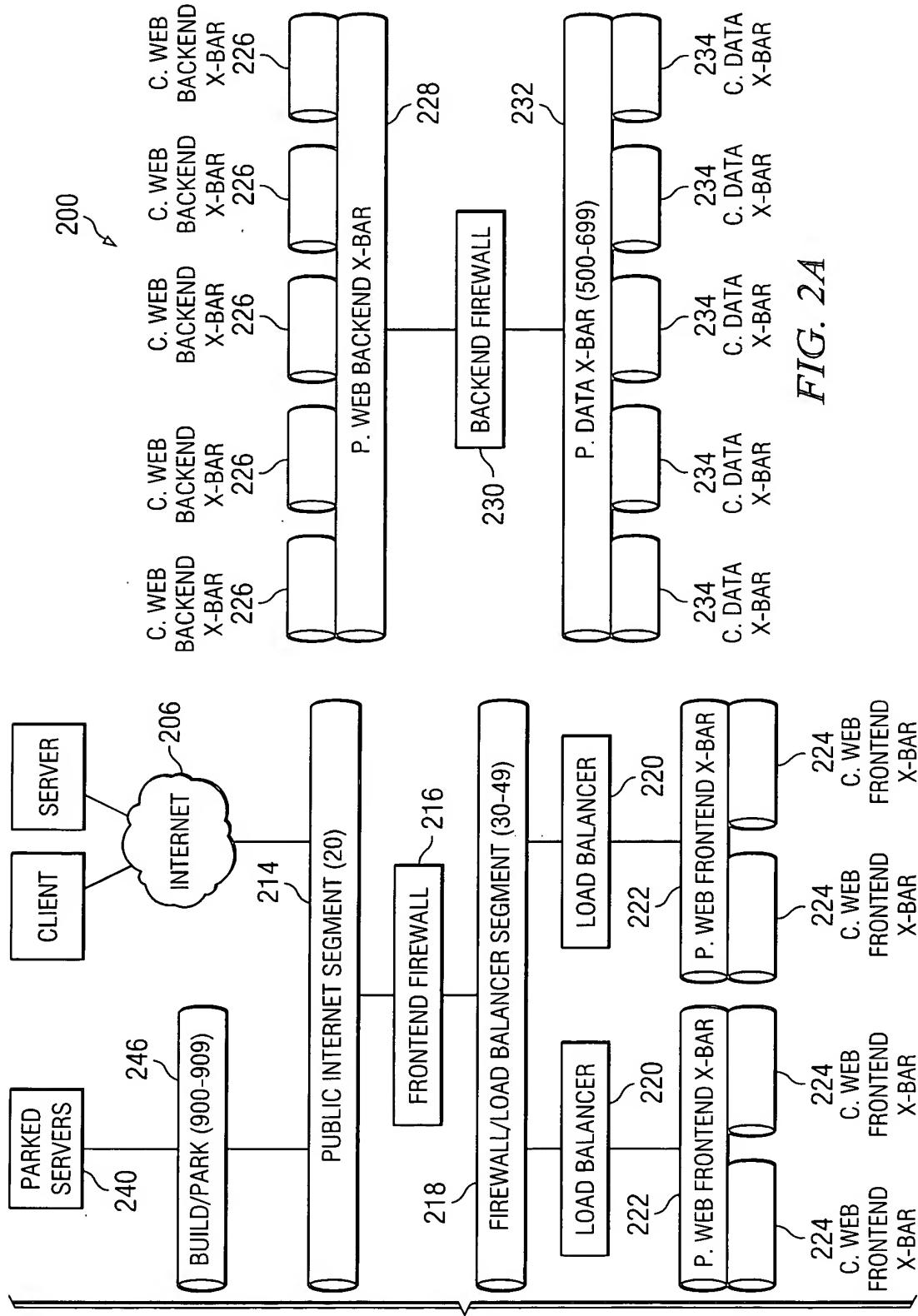
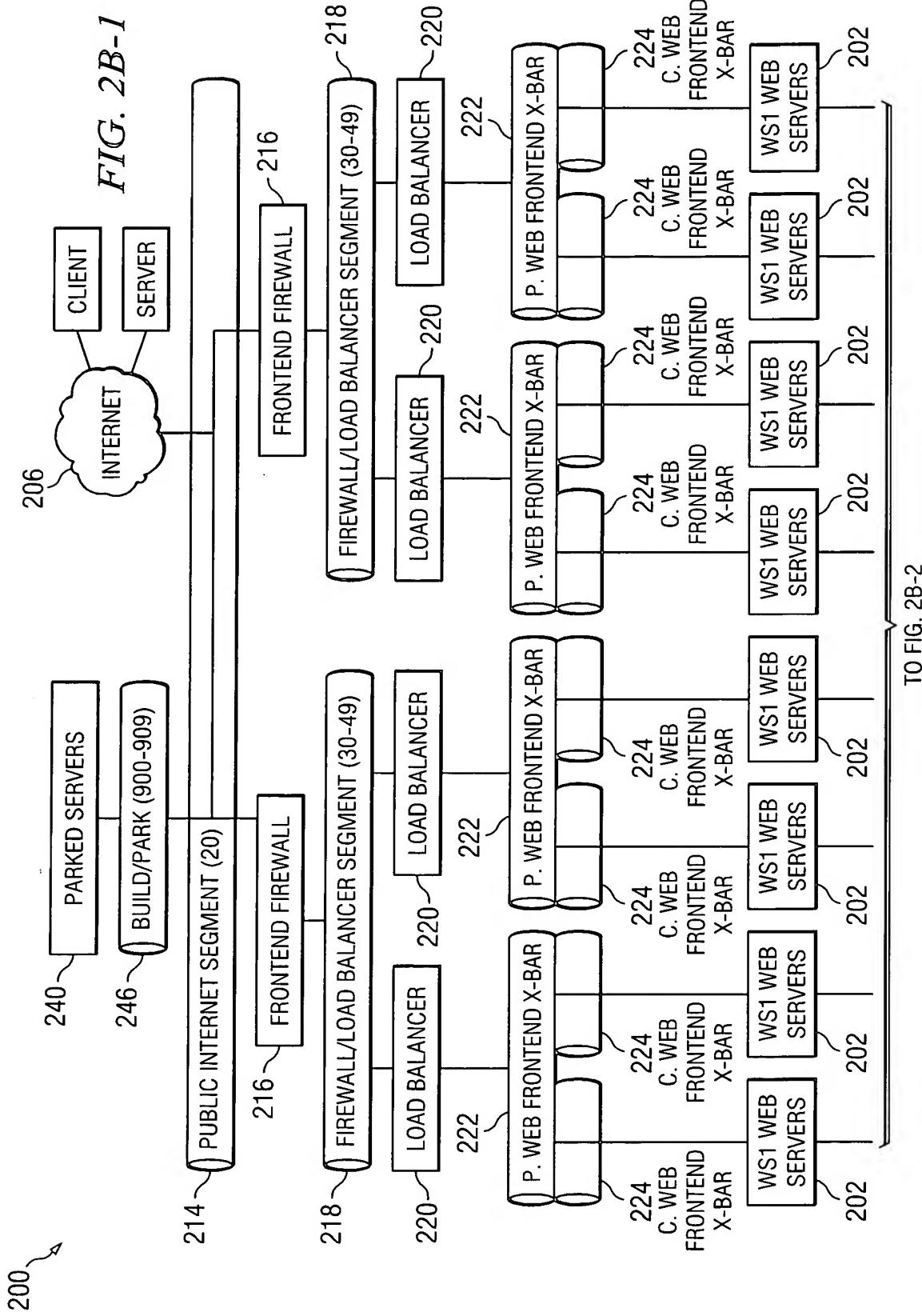
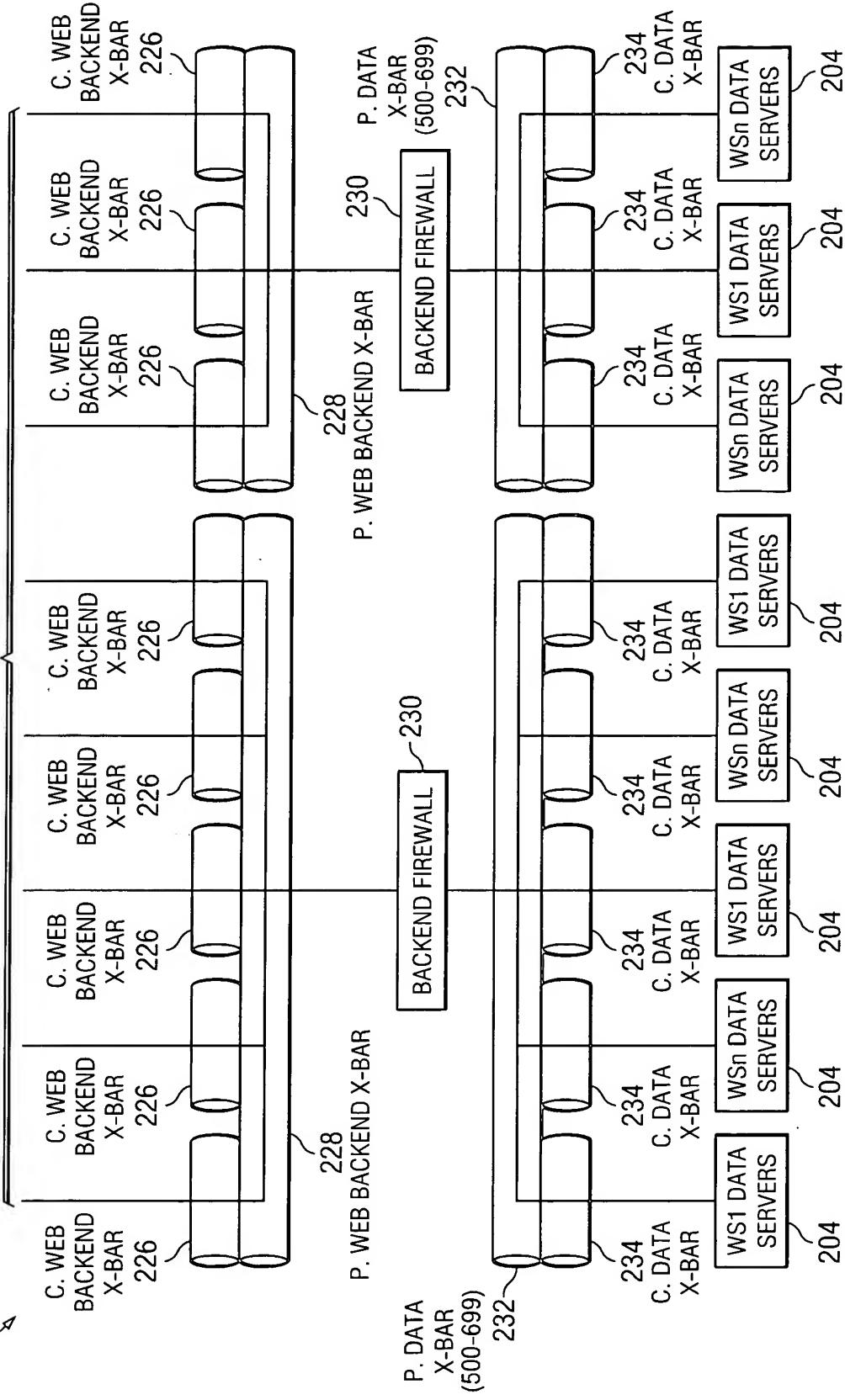


FIG. 2A



200  
*FIG. 2B-2*  
 FROM FIG. 2B-1



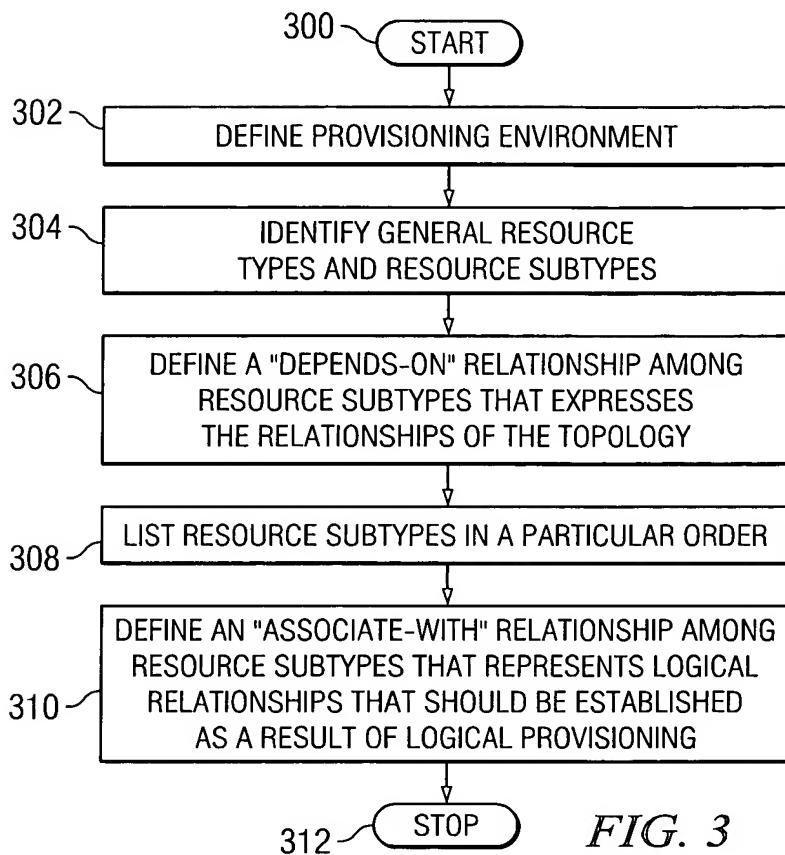


FIG. 3

500 Select (R, I, N) returns resource instance set  
 Identify a minimal  $r \in R$  using topological order 501  
 Let  $S_1, \dots, S_k$  be all sets of  $N_r$  resource instances 502  
 such that:  $\forall s \in S_j$  is of subtype  $r$   
 $\forall s \in S_j$  is available  
 $\forall s \in S_j$ , if  $r$  depends-on  $r'$ ,  $\exists t \in I$  such  
 that  $t$  is of type  $r'$  and  $s$  depends on  $t$   
 503 for  $j = 1$  to  $k$  do  
 504 success = set\_all\_states  
 $(S_j, 'available', 'reserving')$   
 505 if (success)  
 $I' = Select (R - \{r\}, I \cup S_j, N)$  506  
 if ( $I'$  not equal  $(I \cup S_j)$ ) then 507  
 return  $(I \cup S_j \cup I')$  508  
 509 else set\_all\_states  
 $(S_j, 'reserving', 'available')$   
 end 510  
 511 end  
 return ( $I$ ) 512

FIG. 5

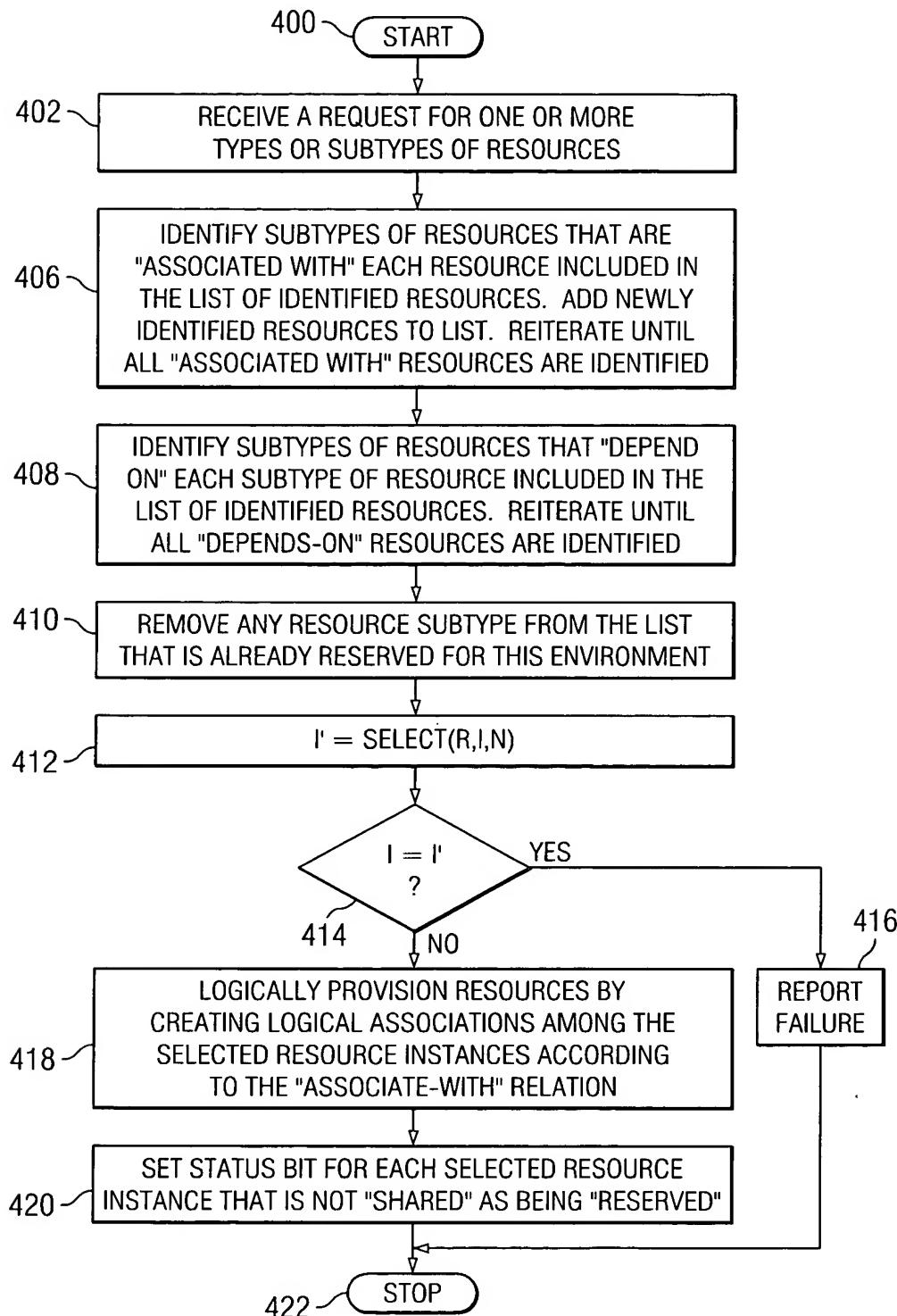


FIG. 4